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- (54) Method of controlling fine particulate flowback in subterranean wells
- A wellbore penetraling a subterranean formstion is treated with a fluid whereby fine particulate flowback is reduced or prevented. The method includes the steps of providing a fluid suspension including a mixture of a particulate coated with a tackliying compound, pumping the suspension into a subterranean formation and depositing the mixture within the formation whereby the tacklying compound reterds movement of at least a portion of any fine particulate within the formation upon flow of fluids from the subterransen formation through the wellbore. Alternatively, the tackifying compound may be introduced into a subterranean formation in a diluent containing solution to deposit upon previously introduced particulates to retaid movement of such particulates and any fines subject to flow with production of fluids from the subterranean formation.

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 97 30 7807

This across loss the patent family members-retaining to the patent documents cited in the above-mentioned European Astron report. The members are as contained in the European Patent Office EOP tile on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-12-1996

NO 953109 A 30-09-1996 US 5787986 A 04-08-1994 US 5833000 A 10-11-1994 US 5775425 A 07-07-1994 US 5501278 A 26-03-1996 US 5439068 A 08-08-1994 AU 679711 B 10-07-1994 AU 679711 B 10-07-1994 CA 2119316 A 06-10-1994 CA 2119316 A 06-10-1994 EP 0619415 A 12-10-1998	US 5501274 A 26-03-1996 EP 0735235 A 02-10-1996 US 5787986 A 04-08-1996 US 5787986 A 04-08-1996 US 57833000 A 10-11-1996 US 5775425 A 07-07-1998 US 5501275 A 26-03-1996 US 5439066 A 08-08-1998 US 5330005 A 19-07-1994 AU 679711 B 10-07-1997 AU 5790894 A 06-10-1994 CA 2119316 A 06-10-1994 CA 2119316 A 06-10-1994 EP 0619415 A 12-10-1998 US 4010802 A 08-03-1977 CA 1040094 A 10-10-1978					•	
NO 953109 A 30-09-1996 US 5787986 A 04-08-1994 US 5833000 A 10-11-1994 US 5775426 A 07-07-1994 US 5501276 A 26-03-1996 US 5439066 A 08-08-1994 AU 679711 B 10-07-1994 AU 679711 B 10-07-1997 AU 5790894 A 06-10-1994 CA 2119316 A 06-10-1994 NO 941182 A 06-10-1994 EP 0619415 A 12-10-1998 US 4010802 A 08-03-1977 CA 1040094 A 10-10-1978	NO 953109 A 30-09-1996 US 5787986 A 04-08-1994 US 5833000 A 10-11-1998 US 5775425 A 07-07-1998 US 5501275 A 26-03-1996 US 5439056 A 08-08-1998 US 5330005 A 19-07-1994 AU 679711 B 10-07-1997 AU 5790894 A 06-10-1994 CA 2119316 A 06-10-1994 NO 941182 A 06-10-1994 EP 0619415 A 12-10-1998 US 4010802 A 08-03-1977 CA 1040094 A 10-10-1978					Petent family member(s)	Publication date
US 5330005 A 19-07-1994 AU 679711 B 10-07-1997 AU 5790894 A 06-10-1994 CA 2119316 A 06-10-1994 NO 941182 A 06-10-1994 EP 0619415 A 12-10-1998 US 4010802 A 08-03-1977 CA 1040094 A 10-10-1978	US 5330005 A 19-07-1994 AU 679711 B 10-07-1997 AU 5790894 A 06-10-1994 CA 2119316 A 06-10-1994 NO 941182 A 06-10-1994 EP 0619415 A 12-10-1998 US 4010802 A 08-03-1977 CA 1040094 A 10-10-1978	US 5501274	A	26-03-1996	NO US US	953109 A 5787986 A 5833000 A	02-10-1996 30-09-1996 04-08-1998 10-11-1996 07-07-1998
		us 5501278	A	26-03-1996	US AU AU CA NO	5330005 A 679711 B 5790894 A 2119316 A 941182 A	08-08-1998 19-07-1994 10-07-1997 06-10-1994 06-10-1994 06-10-1994 12-10-1995
US 3815680 A 11-06-1974 NOME	US 3815680 A 11-06-1974 NONE	US 4010802	A	08-03-1977	CA	1040094 A	10-10-1978
		U\$ 3815680	A	11-06-1974	NONE		
						. *	·

Por most details about this annex : see Official Journal of the European Patent Office, No. 1282



EP 97 30 7807

This annex lets the patent family members-retaining to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Petent Office ECP the on.
The European Petent Office is in no way fields for these personance which are merely given for the purpose of information.

01-12-1998

Patent document clad in search report		Publication date	Patent family member(s)		Publication date
US 5501274	A	26-03-1996	EP NO US US	0735235 A 953109 A 5787986 A 5833000 A 5775425 A	02-10-1990 30-09-1990 04-08-1990 10-11-1990 07-07-1990
us 5501275	A	26-03-1996	US US AU CA NO EP	5439068 A 5330005 A 679711 B 5790894 A 2119316 A 941182 A 0619415 A	08-08-1998 19-07-1994 10-07-1997 06-10-1994 06-10-1994 12-10-1995
US 4010802	A	08-03-1977	CA	1040094 A	10-10-1978
US 3815680	A	11-06-1974	NONE		
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